WHAT IS CLAIMED IS

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 A projection-type display device comprising:

a projection surface on which a predetermined projection image is displayed through projection;

a writing surface on which an image can be drawn directly in a superimposing manner with the projection image displayed on said projection surface; and

a photography part photographing an image

15 drawn on said writing surface by means of an imagepickup part comprising two-dimensionally-disposed pixels

- 2. The projection-type display device as claimed in claim 1, further comprising a projection part which emits a light beam comprising an image signal onto said projection surface so as to display the
- 25 predetermined image on said projection surface.

3. The projection-type display device as claimed in claim 2, wherein:

said writing surface comprises the same surface as said projection surface or is located on the same the side of said projection surface as that on which a user who draws an image onto said writing surface exists; and

said display device further comprises an extracting part extracting a user-drawn image from an image photographed by said photography part.

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4. The projection-type display device as claimed in claim 3, further comprising a combining part combining at least a part of the projection image projected onto said projection surface with the user-drawn image extracted by said extracting part.

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5. The projection-type display device as claimed in claim 4, wherein:

a mode selecting part is provided through which a selection is made between a first photography mode in which the user-drawn image is obtained and a second photography mode in which the combined image is obtained.

10 6. The projection-type display device as claimed in claim 1, wherein the optical axis of said photography part is perpendicular to said writing surface.

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- The projection-type display device as claimed in claim 1, further comprising a part making a correspondence between the projection image and drawn image.
 - 8. The projection-type display device as

claimed in claim 1, further comprising:

an input part inputting the projection image externally;

a recording part recording at least one of the projection image, user-drawn image and combined image; and

an output part outputting the user-drawn image externally.

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9. The projection-type display device as claimed in claim 1, further comprising a blocking part blocking a light beam emitted from a projecting part projecting the light beam onto said projection surface so as to display the projection image thereon.

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10. The projection-type display device as claimed in claim 1, wherein:

a shifting part shifting a photography area of said photography part on said writing surface is

provided;

said photography part takes a photograph
several times in a manner such that the photography area
thereof is shifted each time by means of said shifting
part; and

a combining part is provided, and, thereby, photographed images obtained through the several times of photography are combined.

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11. The projection-type display device as claimed in claim 10, wherein;

said shifting part shifts the photography area by a distance corresponding one pixel each time;

said shifting part comprises a piezoelectric device; and

the vibration distance of said piezoelectric device corresponds to one pixel.

12. The projection-type display device as

claimed in claim 1, wherein:

said writing surface is divided into a
plurality of areas;

said photography part takes a plurality of photographs of respective ones of the plurality of areas; and

a combining part is provided, and, thereby, a thus-obtained plurality of photographed images are combined.

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13. The projection-type display device as
15 claimed in claim 1, wherein:

a moving part moving a photography area of said photography part on said writing surface is provided;

said photography part takes a photograph

20 several times in a manner such that the photography area
thereof each time corresponds to a different division of
said writing surface; and

a combining part is provided, and, thereby, photographed images obtained through the several times of photography are combined.

14. The projection-type display device as claimed in claim 13, further comprising a part displaying the photography area onto said projection surface.

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15. The projection-type display device as

10 claimed in claim 12, further comprising an input part

through which instructions of at least one of whether or

not a dividing photography is performed in which a part

or all of said writing surface is divided and each

division is photographed, and the number of divisions in

15 the dividing photography, are input.

20 16. The projection-type display device as claimed in claim 13, further comprising an input part through which instructions of at least one of whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed, and the number of divisions in

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the dividing photography, are input.

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17. The projection-type display device as claimed in claim 1, further comprising a lighting part illuminating said writing surface from a side opposite to a side on which said photography part is provided.

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18. The projection-type display device as

15 claimed in claim 1, further comprising at least one

lighting part illuminating said writing surface from a

side on which said photography part is provided.

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19. The projection-type display device as claimed in claim 17, wherein said lighting part comprises a plurality of light sources located symmetrically with respect to a central axis of said writing part or an axis corresponding to an optical axis

of a part projecting the projecting image onto said projection surface.

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claimed in claim 18, wherein said lighting part comprises a plurality of light sources located symmetrically with respect to a central axis of said writing part or an axis corresponding to an optical axis of a part projecting the projecting image onto said projection surface.

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21. The projection-type display device as clamed in claim 1, further comprising a dispersion

20 surface removably provided on a surface of said writing surface opposite to a user who draws an image on said writing surface.

22. The projection-type display device as claimed in claim 1, further comprising:

a dispersion sheet comprising a dispersion area which covers all or a part of said writing part and a transparent area which transmits, to said writing surface, at least a part of a light beam emitted by a part which projects the projection image onto said projection surface; and

a moving part moving said dispersion sheet.

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23. A projection-type display device
15 connected to a computer via a communication network, and operating according to instructions given by said computer, comprising:

a projection surface on which a predetermined projection image is displayed through projection;

a writing surface on which an image can be drawn directly in a superimposing manner with the projection image displayed on said projection surface; and

a photography part photographing an image 25 drawn on said writing surface by means of an imagepickup part comprising two-dimensionally-disposed pixels.

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- 24. A computer readable recording medium storing a software program for operating a projection-type display device which comprises:
- a projection surface on which a predetermined projection image is displayed through projection;
 - a writing surface on which an image can be drawn directly in a superimposing manner with the projection image displayed on said projection surface; and
- a photography part photographing an image drawn on said writing surface by means of an image-pickup part comprising two-dimensionally-disposed pixels,

wherein said software program is read by a computer which thus performs the following steps:

- a) making said photography part to take a photograph of said writing surface; and
 - b) extracting an image drawn by a user onto said writing surface, from the photographed image obtained through said step a).

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- 25. The computer readable recording medium as claimed in claim 24, wherein said software program causes the computer to further perform the following step:
- c) combining at least a part of the projection image projected onto said projection surface with the user-drawn image extracted by said step b).

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- 26. The computer readable recording medium as claimed in claim 25, wherein said software program causes the computer to further perform the following step:
- d) causing a user to select a mode between a first photography mode in which the user drawn image is obtained and a second photography mode in which the combined image is obtained.

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27. The computer readable recording medium as claimed in claim 24, wherein said software program

causes the computer to further perform the following steps:

- c) causing said photography part to take a plurality of photographs of respective ones of a predetermined plurality of divisions of said writing surface; and
- d) combining a thus-obtained plurality of photographed images.

- 28. The computer readable recording medium as claimed in claim 24, wherein said software program

 15 causes the computer to further perform the following steps:
 - c) moving a photography area of said photography part on said writing surface;
- d) causing said photography part to take a photograph several times in a manner such that the photography area thereof each time corresponds to a different division of said writing surface; and
 - e) combining photographed images obtained through the several times of photography.

- 29. The computer readable recording medium as claimed in claim 27, wherein said software program causes the computer to further perform the following steps:
- e) causing a user to determine at least one of whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed, and the number of divisions in the dividing photography.

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- 30. The computer readable recording medium as

 15 claimed in claim 28, wherein said software program

 causes the computer to further perform the following

 steps:
 - f) causing a user to determine at least one of whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed and, the number of divisions in the dividing photography.

- 31. A software program for operating a projection-type display device which comprises:
- a projection surface on which a predetermined projection image is displayed through projection;
- a writing surface on which an image can be drawn directly in a superimposing manner with the projection image displayed on said projection surface; and
- a photography part photographing an image

 10 drawn on said writing surface by means of an imagepickup part comprising two-dimensionally-disposed pixels,

wherein said software program is read by a computer which thus performs the following steps:

- a) making said photography part to take aphotograph of said writing surface; and
 - b) extracting an image drawn by a user onto said writing surface, from the photographed image obtained through said step a).

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32. The software program as claimed in claim
31, wherein said software program causes the computer to
25 further perform the following step:

c) combining at least a part of the projection image projected onto said projection surface with the user-drawn image extracted by said step b).

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- 33. The software program as claimed in claim 32, wherein said software program causes the computer to further perform the following steps:
 - d) causing a user to select a mode between a first photography mode in which the user-drawn image is obtained and a second photography mode in which the combined image is obtained.

- 34. The software program as claimed in claim
 20 31, wherein said software program causes the computer to
 further perform the following steps:
 - c) causing said photography part to take a plurality of photographs of respective ones of a predetermined plurality of divisions of said writing
- 25 surface; and

d) combining a thus-obtained plurality of photographed images.

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- 35. The software program as claimed in claim 31, wherein said software program causes the computer to further perform the following steps:
- c) moving a photography area of said photography part on said writing surface;
 - d) causing said photography part to take a photograph several times in a manner such that the photography area thereof each time corresponds to a different division of said writing surface; and
 - e) combining photographed images obtained through the several times of photography.

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- 36. The software programs as claimed in claim 34, causing the computer to further perform the following steps:
- e) causing a user to determine at least one of

whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed, and the number of divisions in the dividing photography.

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- 37. The software program as claimed in claim
 10 35, causing the computer to further perform the
 following steps:
 - f) causing a user to determine at least one of whether or not a dividing photography is performed in which a part or all of said writing surface is divided and each division is photographed, and the number of divisions in the dividing photography.